

Burn Care

For Severe Second Degree Burns



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Not Your Ordinary ECM

Cytal[®] Burn Matrix* is a medical device engineered using ACell's proprietary MatriStem UBM[™] (Urinary Bladder Matrix) technology. The device maintains an intact epithelial basement membrane and facilitates the body's ability to remodel site-appropriate tissue. Cytal Burn Matrix is well suited for the management of severe second degree burns.



Cytal Burn Matrix

- Provides a scaffold for natural remodeling
- Contains an intact epithelial basement membrane and numerous collagens
- Offers rapid coverage of burn injury
- Complements standard of care

* Previously marketed as MatriStem® Burn Matrix.



Product Composition

Cytal Burn Matrix devices contain multiple types of carbohydrates, collagens, proteins and other components. These product characteristics facilitate a remodeling process by the body that results in the formation of site-appropriate tissue. It is designed to have competitive advantages over other treatment modalities and offer an alternative wound management option for a range of procedures.

Cytal Burn Matrix Products

Epitheli	al Basement Membrane	
Gl	cosaminoglycans	
	Collagen Type I	
(Collagen Type III	
(Collagen Type IV	
C	Collagen Type VII	
	Laminin	

Epithelial Basement Membrane

The epithelial basement membrane can contribute to cell attachment and proliferation.

Lamina Propria

The lamina propria surface is conducive for integration of host connective tissue into the scaffold.

- Cytal Burn Matrix has become an integral part of my practice, allowing me to manage severe partial-thickness burns and restore my patients' tissue to a more natural state.
 - Dr. Timothy Pittinger
 Director, Burn Surgery

The Science of Remodeling⁺

Cytal Burn Matrix devices are manufactured with ACell's proprietary MatriStem UBM[™] (Urinary Bladder Matrix) technology. In a peer reviewed study¹, ACell's UBM Surgical Matrix devices showed evidence of remodeling when compared to 14 commercially available biologically-derived devices. Favorable host remodeling response correlated to a higher amount of M2 phenotype. Host cells more favorably migrated to M2 phenotype macrophages, indicating a possible mechanism for the formation of site-appropriate tissue.*









Low Magnification

High Magnification

Low Magnification

High Magnification

Photomicrographs of hematoxylin and eosin stained slides showing examples of the host remodeling response to MatriStem UBM technology at 14 (left panel) and 35 days (right panel). Images with higher magnification represent the area within the black box in lower magnification images.

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The Remodeling Process



 Brown BN, Londono R, Tottey S, Zhang L, Kukla KA, Wolf MT, Daly KA, Reing JE, Badylak SF. Macrophage phenotype as a predictor of constructive remodeling following the implantation of biologically derived surgical mesh materials. Acta Biomaterialia. 2012 Mar;8(3):978-87.

Preclinical data may not reflect clinical results

*These results are from an animal wound model and not a burn specific injury model

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Burn Management Case

Upper Extremity Second Degree Burn Injury

Circumferential partial-thickness flash burn to upper left arm.



Initial presentation of the injury.



30 days after treatment with Cytal Burn Matrix technology.



60 days post-application of Cytal Burn Matrix technology.

Injury Managed With Cytal Burn Matrix

Burn Managed with Cytal Burn Matrix





- Complete epithelialization with formation of immature rete pegs
- Normal collagen structure with partial elastin content
- Robust vascularization comparable to normal tissue
- Positive staining for glycosaminoglycans (GAG's)

Product List

Product	Item Number	Size	Quantity
Outol Ruro Motrix, Machad	RMMOSOS	5 v 5 cm	1/boy
Cytal Burn Matrix, Meshed	BMM0303	7 x 10 cm	1/box
Cytal Burn Matrix, Meshed	BMM1015	10 x 15 cm	1/box

